Economics

Eighth Edition



Economics

Eighth Edition

David Begg

Stanley Fischer Rudiger Dornbusch

The **McGraw**·Hill Companies

 $\label{lem:london} London \cdot Boston \cdot Burr Ridge, IL \cdot Dubuque, IA \cdot Madison, WI \cdot New York \\ San Francisco \cdot St. Louis \cdot Bangkok \cdot Bogotá \cdot Caracas \cdot Kuala Lumpur \cdot Lisbon \\ Madrid \cdot Mexico City \cdot Milan \cdot Montreal \cdot New Delhi \cdot Santiago \cdot Seoul \cdot Singapore \\ Sydney \cdot Taipei \cdot Toronto$

Economics Eighth Edition David Begg, Stanley Fischer and Rudiger Dornbusch ISBN-13: 978-007710775-8 ISBN-10: 0-07-7107756



Published by McGraw-Hill Education Shoppenhangers Road Maidenhead Berkshire SL6 2QL Telephone: 44 (0) 1628 502 500 Fax: 44 (0) 1628 770 224 Website: www.mcgraw-hill.co.uk

British Library Cataloguing in Publication Data A catalogue record for this book is available from the British Library

Library of Congress Cataloging in Publication Data The Library of Congress data for this book has been applied for from the Library of Congress

Acquisitions Editor: Kirsty Reade Senior Development Editor: Caroline Howell Senior Production Editor: Eleanor Hayes Marketing Director: Petra Skytte

Text design by Claire Brodmann Book Designs, Lichfield, Staffs. Cover design by Ego Creative Ltd Typeset by Northern Phototypesetting Co Ltd, Bolton Printed and bound in Spain by Mateu Cromo Artes Graficas SA, Madrid

Published by McGraw-Hill Education (UK) Limited an imprint of The McGraw-Hill Companies, Inc., 1221 Avenue of the Americas, New York, NY 10020. Copyright © 2005 by McGraw-Hill Education (UK) Limited. All rights reserved. No part of this publication may be reproduced or distributed in any form or by any means, or stored in a database or retrieval system, without the prior written consent of The McGraw-Hill Companies, Inc., including, but not limited to, in any network or other electronic storage or transmission, or broadcast for distance learning.

ISBN-13: 978-007710775-8 ISBN-10: 0-07-7107756

© 2005. Exclusive rights by The McGraw-Hill Companies, Inc. for manufacture and export. This book cannot be re-exported from the country to which it is sold by McGraw-Hill.

Dedication

For Honora, Mary and Robin

Brief table of contents

	Detailed table of contents	IX
	Suggested outlines for a shortened course	xviii
	Getting the most out of this book	xx
	Preface	xxi
	Acknowledgements for the eighth edition	xxiii
	Guided tour	xxiv
	Technology to enhance learning and teaching	xxvi
Part one	Introduction	1
1.	Economics and the economy	3
2.	Tools of economic analysis	15
3.	Demand, supply and the market	30
Part two	Positive microeconomics	45
4.	Elasticities of demand and supply	47
 5.	Consumer choice and demand decisions	64
6.	Introducing supply decisions	85
7.	Costs and supply	101
	• • •	120
8.	Perfect competition and pure monopoly	
9. 10.	Market structure and imperfect competition	142
10.	The labour market	162
11. 12.	Different types of labour Factor markets and income distribution	185 201
12.	Risk and information	201
14.		241
14.	The information economy	241
Part three	Welfare economics	257
15.	Welfare economics	259
16.	Government spending and revenue	279
17.	Industrial policy and competition policy	298
18.	Natural monopoly: public or private?	315

Brief table of contents

Part four	Macroeconomics	333
19.	Introduction to macroeconomics	335
20.	Output and aggregate demand	353
21.	Fiscal policy and foreign trade	367
22.	384	
23.	401	
24.	Monetary and fiscal policy	418
25.	Aggregate supply, prices and adjustment to shocks	430
26.	Inflation, expectations and credibility	447
27.	Unemployment	469
28.	Exchange rates and the balance of payments	484
29.	Open economy macroeconomics	500
30.	Economic growth	517
31.	Business cycles	536
32.	Macroeconomics: taking stock	549
Part five	The world economy	565
33.	International trade	567
34.	Exchange rate regimes	589
35.	European integration	605
36.	Less developed countries	622
	Appendix, Anguara to review questions	638
	Appendix: Answers to review questions	646
	Glossary	
	Index	657

	Sugges	sted outlines for a shortened course	xviii
	Getting	g the most out of this book	XX
	Preface	е	xxi
	Acknow	wledgements for the eighth edition	xxiii
	Guidea	d tour	xxiv
	Techno	ology to enhance learning and teaching	xxvi
Part one	Introd	duction	1
Chapter 1	Econo	omics and the economy	3
•	1.1	Economic issues	4
	1.2	Scarcity and the competing use of resources	6
	1.3	The role of the market	8
	1.4	Positive and normative	11
	1.5	Micro and macro	12
		Summary	13
		Review questions	14
Chapter 2	Tools	of economic analysis	15
onapto: _	2.1	Economic data	16
	2.2	Index numbers	17
	2.3	Nominal and real variables	18
	2.4	Measuring changes in economic variables	20
	2.5	Economic models	20
	2.6	Models and data	21
	2.7	Diagrams, lines and equations	22
	2.8	Another look at 'other things equal'	24
	2.9	Theories and evidence	25
	2.10	Some popular criticisms of economics and economists	25
		Summary	27
		Review questions	28
Chapter 3	Dema	nd, supply and the market	30
	3.1	The market	30
	3.2	Demand, supply and equilibrium	31
	3.3	Demand and supply curves	32
	3.4	Behind the demand curve	33
	3.5	Shifts in the demand curve	35
	3.6	Behind the supply curve	36
	3.7	Shifts in the supply curve	37
	3.8	Free markets and price controls	38
	3.9	What, how and for whom	40
		Summary	42
		Review questions	44

Part two Positive microeconomics		45
Chapter 4 Elast	47	
4.1	The price responsiveness of demand	47
4.2	Price, quantity demanded and total expenditure	52
4.3	Further application of the price elasticity of demand	53
4.4	Short run and long run	55
4.5	The cross-price elasticity of demand	55
4.6	The effect of income on demand	56
4.7	Inflation and demand	59
4.8	Elasticity of supply	59
4.9	Who really pays the tax?	60
	Summary	62
	Review questions	63
Chapter 5 Cons	sumer choice and demand decisions	64
5.1	Demand by a single consumer	64
5.2	Adjustment to income changes	71
5.3	Adjustment to price changes	73
5.4	The market demand curve	78
5.5	Complements and substitutes	79
5.6	Transfers in kind	79
	Summary	80
	Review questions	81
	Appendix: Consumer choice with measurable utility	82
Chapter 6 Intro	ducing supply decisions	85
6.1	Business organization	85
6.2	A firm's accounts	86
6.3	Firms and profit maximization	90
6.4	Corporate finance and corporate control	91
6.5	The firm's supply decision	92
6.6	Marginal cost and marginal revenue	94
6.7	Marginal cost and marginal revenue curves	97
	Summary	99
	Review questions	99
Chapter 7 Cost		101
7.1	Input and output	101
7.2	Costs and the choice of technique	102
7.3	Long-run total, marginal and average costs	104
7.4	Returns to scale	105
7.5	Average cost and marginal cost	109
7.6	The firm's long-run output decision	110
7.7	Short-run costs and diminishing marginal returns	110
7.8	A firm's output decision in the short run	115
7.9	Short-run and long-run costs	117
	Summary Parian quantions	117
	Review questions	118

Chapter 8 Perfe	ct competition and pure monopoly	120
8.1	Perfect competition	121
8.2	A perfectly competitive firm's supply decision	122
8.3	Industry supply curves	125
8.4	Comparative statics for a competitive industry	128
8.5	Global competition	130
8.6	Pure monopoly: the opposite limiting case	131
8.7	Profit-maximizing output for a monopolist	132
8.8	Output and price under monopoly and competition	134
8.9	A monopoly has no supply curve	136
8.10	Monopoly and technical change	138
	Summary	139
	Review questions	140
Chapter 9 Market	et structure and imperfect competition	142
9.1	Why market structures differ	143
9.2	Monopolistic competition	146
9.3	Oligopoly and interdependence	147
9.4	Game theory and interdependent decisions	150
9.5	Reaction functions	152
9.6	Entry and potential competition	156
9.7	Strategic entry deterrence	157
9.8	Summing up	159
	Summary	160
	Review questions	161
Chapter 10 The	labour market	162
10.1	The firm's demand for factors in the long run	163
10.2	The firm's demand for labour in the short run	164
10.3	The industry demand curve for labour	168
10.4	The supply of labour	169
10.5	Industry labour market equilibrium	174
10.6	Transfer earnings and economic rents	175
10.7	Do labour markets clear?	176
10.8	UK wages and employment	179
	Summary	180
	Review questions	181
	Appendix: Isoquants and the choice of production technique	182
Chapter 11 Diffe	rent types of labour	185
11.1	Productivity differences	186
11.2	Discrimination	191
11.3	Trade unions	194
	Summary	199
	Review questions	199
Chapter 12 Fact	or markets and income distribution	201
12.1	Physical capital	202
12.2	Rentals, interest rates and asset prices	203

	12.3	Saving, investment and the real interest rate	207
	12.4	The demand for capital services	208
	12.5	The supply of capital services	209
	12.6	Equilibrium and adjustment in the market for capital services	212
	12.7	The price of capital assets	213
	12.8	Land and rents	214
	12.9	Allocating a fixed land supply between competing uses	215
	12.10	The facts again	216
	12.11	Income distribution in the UK	217
		Summary	219
		Review questions	220
		Appendix: The simple algebra of present values and discounting	221
Chapter 13	Risk	and information	222
•	13.1	Individual attitudes to risk	222
	13.2	Insurance and risk	224
	13.3	Uncertainty and asset returns	227
	13.4	Portfolio selection	229
	13.5	Efficient asset markets	233
	13.6	More on risk	236
		Summary	239
		Review questions	240
Chapter 14	The i	nformation economy	241
	14.1	E-products	241
	14.2	Consuming information	242
	14.3	Distributors of information	246
	14.4	Setting standards	250
	14.5	Recap	251
	14.6	Boom and bust of the dot.com companies	251
		Summary	254
		Review questions	255
Part three	. Walf	are economics	257
		are economics	259
Chapter 15			
	15.1 15.2	Equity and efficiency Perfect competition and Pareto efficiency	259
	15.2	Distortions and the second best	261
	15.3	Market failure	264 266
		Externalities	
	15.5	Environmental issues	267
	15.6		270
	15.7	Other missing markets: time and risk	274
	15.8	Quality, health and safety	274
		Summary	276
		Review questions	278

16.2 The government in the market economy 16.3 The principles of taxation 16.4 Taxation and supply-side economics 16.5 Local government 16.6 Economic sovereignty 16.7 Political economy: how governments decide Summary Review questions Chapter 17 Industrial policy and competition policy 17.1 Industrial policy 17.2 Economic geography 17.3 The social cost of monopoly power 17.4 Competition policy	281 281 285 290 291 293 295 296 298 302 303 308 310 313 314 315
16.3 The principles of taxation 16.4 Taxation and supply-side economics 16.5 Local government 16.6 Economic sovereignty 16.7 Political economy: how governments decide Summary Review questions Chapter 17 Industrial policy and competition policy 17.1 Industrial policy 17.2 Economic geography 17.3 The social cost of monopoly power 17.4 Competition policy	285 289 290 291 293 295 296 298 302 303 308 310 313 314
16.4 Taxation and supply-side economics 16.5 Local government 16.6 Economic sovereignty 16.7 Political economy: how governments decide Summary Review questions Chapter 17 Industrial policy and competition policy 17.1 Industrial policy 17.2 Economic geography 17.3 The social cost of monopoly power 17.4 Competition policy	289 290 291 293 295 296 298 302 303 308 310 313 314
16.5 Local government 16.6 Economic sovereignty 16.7 Political economy: how governments decide Summary Review questions Chapter 17 Industrial policy and competition policy 17.1 Industrial policy 17.2 Economic geography 17.3 The social cost of monopoly power 17.4 Competition policy	290 291 293 295 296 298 302 303 308 310 313 314
16.6 Economic sovereignty 16.7 Political economy: how governments decide Summary Review questions Chapter 17 Industrial policy and competition policy 17.1 Industrial policy 17.2 Economic geography 17.3 The social cost of monopoly power 17.4 Competition policy	291 293 295 296 298 302 303 308 310 313 314
16.7 Political economy: how governments decide Summary Review questions Chapter 17 Industrial policy and competition policy 17.1 Industrial policy 17.2 Economic geography 17.3 The social cost of monopoly power 17.4 Competition policy	293 295 296 298 299 302 303 308 310 313 314
Summary Review questions Chapter 17 Industrial policy and competition policy 17.1 Industrial policy 17.2 Economic geography 17.3 The social cost of monopoly power 17.4 Competition policy	295 296 298 302 303 308 310 313
Review questions Chapter 17 Industrial policy and competition policy 17.1 Industrial policy 17.2 Economic geography 17.3 The social cost of monopoly power 17.4 Competition policy	296 298 299 302 303 308 310 313
Chapter 17 Industrial policy and competition policy 17.1 Industrial policy 17.2 Economic geography 17.3 The social cost of monopoly power 17.4 Competition policy	298 299 302 303 308 310 313 314
 17.1 Industrial policy 17.2 Economic geography 17.3 The social cost of monopoly power 17.4 Competition policy 	299 302 303 308 310 313 314
 17.2 Economic geography 17.3 The social cost of monopoly power 17.4 Competition policy 	302 303 308 310 313 314
17.3 The social cost of monopoly power17.4 Competition policy	303 308 310 313 314
17.4 Competition policy	308 310 313 314
	310 313 314
	313 314
17.5 Mergers	314
Summary	
Review questions	315
Chapter 18 Natural monopoly: public or private?	
18.1 Natural monopoly	316
18.2 Nationalized industries	317
18.3 Public versus private	321
18.4 Privatization in practice	324
18.5 Regulating private monopolies	325
18.6 The private finance initiative	327
Summary	330
Review questions	330
Part four Macroeconomics 3	333
Chapter 19 Introduction to macroeconomics	335
•	336
	336
	337
	339
	347
	350
·	351
	353
	355
	357
	357
	359
	360
	362
•	363

		Summary	365
		Review questions	366
Chapter 21	Fisca	al policy and foreign trade	367
•	21.1	Government and the circular flow	368
	21.2	The government and aggregate demand	368
	21.3	The government budget	372
	21.4	Deficits and the fiscal stance	374
	21.5	Automatic stabilizers and discretionary fiscal policy	375
	21.6	The national debt and the deficit	377
	21.7	Foreign trade and income determination	378
		Summary	381
		Review questions	383
Chapter 22	Mon	ey and banking	384
•	22.1	Money and its functions	384
	22.2	Modern banking	386
	22.3	How banks create money	388
	22.4	The monetary base and the money multiplier	390
	22.5	Measures of money	392
	22.6	Competition between banks	393
	22.7	The demand for money	394
		Summary	398
		Review questions	399
Chapter 23	Inter	est rates and monetary transmission	401
	23.1	The Bank of England	401
	23.2	The Bank and the money supply	402
	23.3	Lender of last resort	404
	23.4	Equilibrium in financial markets	404
	23.5	Monetary control	407
	23.6	Targets and instruments of monetary policy	409
	23.7	The transmission mechanism	409
		Summary	415
		Review questions	416
Chapter 24	Mon	etary and fiscal policy	418
•	24.1	Monetary policy rules	418
	24.2	The IS–LM model	420
	24.3	The IS–LM model in action	422
	24.4	Shocks to money demand	423
	24.5	The policy mix	424
	24.6	The effect of future taxes	426
	24.7	Demand management revisited	428
		Summary	428
		Review questions	429
Chapter 25	Aggr	regate supply, prices and adjustment to shocks	430
•	25.1	Inflation and aggregate demand	431
	25.2	Aggregate supply	433
	25.3	Equilibrium inflation	434

	25.4	The labour market and wage behaviour	437
	25.5	Short-run aggregate supply	438
	25.6	The adjustment process	439
	25.7	Sluggish adjustment to shocks	441
	25.8	Tradeoffs in monetary objectives	444
		Summary	445
		Review questions	446
Chapter 26	Inflat	tion, expectations and credibility	447
	26.1	Money and inflation	448
	26.2	Inflation and interest rates	450
	26.3	Inflation, money and deficits	452
	26.4	Inflation, unemployment and output	453
	26.5	The costs of inflation	459
	26.6	Defeating inflation	462
	26.7	The Monetary Policy Committee	464
		Summary	466
		Review questions	467
Chapter 27		mployment	469
	27.1	The labour market	470
	27.2	Analysing unemployment	471
	27.3	Explaining changes in unemployment	475
	27.4	Cyclical fluctuations in unemployment	479
	27.5	The cost of unemployment	480
		Summary	482
		Review questions	483
Chapter 28	Exch	nange rates and the balance of payments	484
	28.1	The foreign exchange market	484
	28.2	Exchange rate regimes	487
	28.3	The balance of payments	488
	28.4	The real exchange rate	490
	28.5	Determinants of the current account	491
	28.6	The financial account	492
	28.7	Internal and external balance	494
	28.8	The long-run equilibrium real exchange rate	495
		Summary	498
		Review questions	499
Chapter 29	Oper	n economy macroeconomics	500
	29.1	Fixed exchange rates	500
	29.2	Macroeconomic policy under fixed exchange rates	503
	29.3	Devaluation	504
	29.4	Floating exchange rates	507
	29.5	Monetary and fiscal policy under floating exchange rates	511
	29.6	The pound since 1980	512
		Summary	514
		Review questions	515

Chapter 30	Ecor	nomic growth	517
	30.1	Economic growth	518
	30.2	Growth: an overview	519
	30.3	Technical knowledge	521
	30.4	Growth and accumulation	523
	30.5	Growth through technical progress	526
	30.6	Growth in the OECD	527
	30.7	Endogenous growth	530
	30.8	The costs of growth	532
		Summary	533
		Review questions	534
Chapter 31	Busi	ness cycles	536
•	31.1	Trend and cycle: statistics or economics?	537
	31.2	Theories of the business cycle	538
	31.3	Real business cycles	541
	31.4	An international business cycle?	544
	31.5	UK recovery after 1992	545
	31.6	The odyssey after 2001	546
		Summary	547
		Review questions	548
Chapter 32	Mac	roeconomics: taking stock	549
•	32.1	Areas of disagreement	550
	32.2	New Classical macroeconomics	554
	32.3	Gradualist monetarists	556
	32.4	Moderate Keynesians	557
	32.5	Extreme Keynesians	559
	32.6	A summing up	560
		Summary	561
		Review questions	562
Part five T	he w	vorld economy	565
Chapter 33	Inter	rnational trade	567
•	33.1	Trade patterns	568
	33.2	Comparative advantage	570
	33.3	Intra-industry trade	575
	33.4	Gainers and losers	577
	33.5	The economics of tariffs	578
	33.6	Good and bad arguments for tariffs	580
	33.7	Tariff levels: not so bad?	585
	33.8	Other trade policies	585
		Summary	587
		Review questions	588
Chapter 34	Exch	nange rate regimes	589
3 ,	34.1	The gold standard	590
	34.2	An adjustable peg	591
	34.3	Floating exchange rates	593

	34.4	Speculative attacks on pegged exchange rates	594
	34.5	Fixed versus floating	596
	34.6	International policy co-ordination	598
	34.7	The European Monetary System	599
		Summary	602
		Review questions	603
Chapter 3	5 Euro	pean integration	605
_	35.1	The Single Market	605
	35.2	Benefits of the Single Market	606
	35.3	From EMS to EMU	607
	35.4	The economics of EMU	610
	35.5	Central and Eastern Europe	614
		Summary	619
		Review questions	620
Chapter 3	6 Less	developed countries	622
	36.1	World income distribution	622
	36.2	Obstacles to development	623
	36.3	Development through trade in primary products	625
	36.4	Industrialization	629
	36.5	Borrowing to grow	631
	36.6	Development through structural adjustment	633
	36.7	Aid	634
		Summary	635
		Review questions	636
Appendix:	Answe	ers to review questions	638
Glossary			646
Indev			657

Suggested outlines for a shortened course

As a lecturer using this textbook to deliver an economics module, you may not be able to use the complete text. Below are some suggestions on how it may be used on a short economics course, or as a text for a microeconomics or macroeconomics module.

First option

A short introduction to economics

- 1 Economics and the economy
- 2 Tools of economic analysis
- 3 Demand, supply and the market
- 4 Elasticities of demand and supply
- 6 Introducing supply decisions
- 7 Costs and supply
- 8 Perfect competition and pure monopoly
- 9 Market structure and imperfect competition
- 10 The labour market
- 12 Factor markets and income distribution
- 15 Welfare economics
- 19 Introduction to macroeconomics
- 20 Output and aggregate demand
- 21 Fiscal policy and foreign trade
- 22 Money and banking
- 23 Interest rates and monetary transmission
- 24 Monetary and fiscal policy
- 32 Macroeconomics: taking stock
- 33 International trade

Second option

An introduction to microeconomics

- 1 Economics and the economy
- 2 Tools of economic analysis
- 3 Demand, supply and the market
- 4 Elasticities of demand and supply
- 5 Consumer choice and demand decisions
- 6 Introducing supply decisions
- 7 Costs and supply
- 8 Perfect competition and pure monopoly
- 9 Market structure and imperfect competition
- 10 The labour market
- 12 Factor markets and income distribution
- 15 Welfare economics
- 16 Government spending and revenue
- 17 Industrial policy and competition policy

Suggested outlines for a shortened course

- 18 Natural monopoly: public or private?
- 33 International trade

Third option

An introduction to macroeconomics

- 1 Economics and the economy
- 2 Tools of economic analysis
- 3 Demand, supply and the market
- 19 Introduction to macroeconomics
- 20 Output and aggregate demand
- 21 Fiscal policy and foreign trade
- 22 Money and banking
- 23 Interest rates and monetary transmission
- 24 Monetary and fiscal policy
- 25 Aggregate supply, prices and adjustment to shocks
- 26 Inflation, expectations and credibility
- 27 Unemployment
- 28 Exchange rates and the balance of payments
- 29 Open economy macroeconomics
- 30 Economic growth
- 31 Business cycles
- 32 Macroeconomics: taking stock
- 34 Exchange rate regimes

Also available from McGraw-Hill:

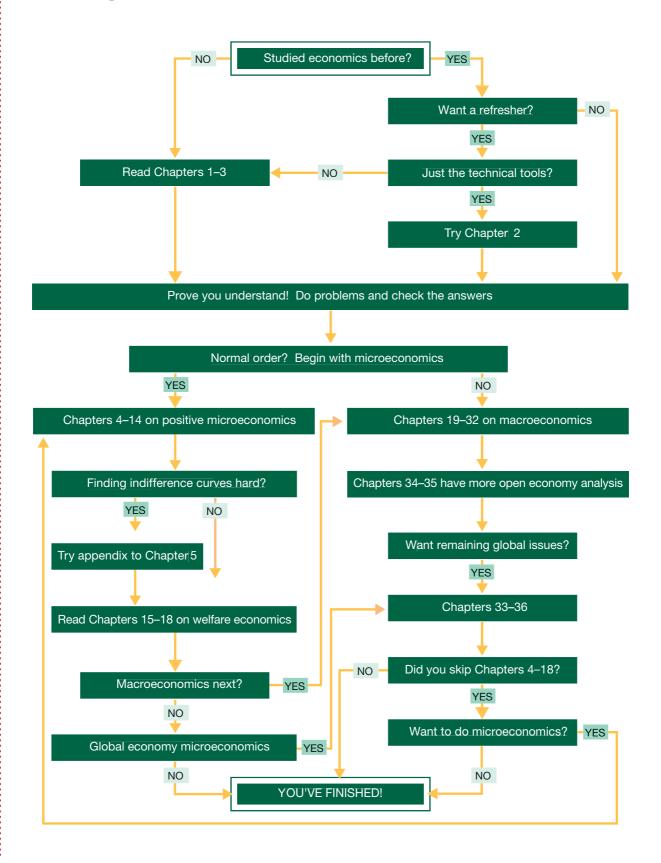
Begg, Fischer and Dornbusch, Foundations of Economics, 3rd edition

 Tailored to suit a 10–12 week foundation module in economics, for use with economics specialist or non-specialist students.

Begg and Ward, Economics for Business

 A new text for students of economics on business and management programmes that focuses on economics problems faced by businesses.

Getting the most out of this book



Preface

Economics is much too interesting to be left to professional economists. It affects almost everything we do, not merely at work or at the shops but also in the home and the voting booth. It influences how well we look after our planet, the future we leave for our children, the extent to which we can care for the poor and the disadvantaged, and the resources we have for enjoying ourselves

These issues are discussed daily, in bars and buses as well as cabinet meetings and board-rooms. The formal study of economics is exciting because it introduces a toolkit that allows a better understanding of the problems we face. Everyone knows a smoky engine is a bad sign, but sometimes only a trained mechanic can give the right advice on how to fix it.

This book is designed to teach you the toolkit and give you practice in using it. Nobody carries an enormous toolbox very far. Useful toolkits are small enough to be portable but contain enough proven tools to deal both with routine problems and unforeseen circumstances. With practice, you will be surprised at how much light this analysis can shed on daily living. This book is designed to make economics seem as useful as it really is.

How much do economists disagree?

There is an old complaint that economists never agree about anything. This is simply wrong. The media, taxi drivers, and politicians love to talk about topics on which there is disagreement; it would be boring TV if all participants in a panel discussion held identical views. But economics is not a subject in which there is always an argument for everything. There are answers to many questions. We aim to show where economists agree – on what and for what reason – and why they sometimes disagree.

Economics in the 21st century

Our aim is to allow students to understand today's economic environment. This requires mastering the theory and practising its application. Just as the theory of genetics or information technology is slowly progressing, so the theory of economics continues to make progress, sometimes in dramatic and exciting ways.

We believe in introducing students immediately to the latest ideas in economics. If these can be conveyed simply, why force students to use older approaches that work less well? Two recent developments in economics underlie much of what we do. One is the role of information, the other is globalization.

How information is transmitted and manipulated is central to many issues in incentives and competition, including the recent boom in e-commerce. Ease of information, coupled with lower transport costs, also explains trends towards globalization, and associated reductions in national sovereignty, especially in smaller countries. Modern economics helps us make sense of our changing world, think about where it may go next, and evaluate choices that we currently face.

Learning by doing

Few people practise for a driving test just by reading a book. Even when you think you understand how to do a hill start, it takes a lot of practice to master the finer points. In the same way, we give you lots of examples and real-world applications not just to emphasize the relevance of economics but also to help you master it for yourself. We start at square one and take you slowly

through the tools of theoretical reasoning and how to apply them. We do not use algebra and there are very few equations in the book. The best ideas are simple and robust, and can usually be explained quite easily.

How to study

Don't just read about economics, try to do it! It is easy, but mistaken, to read on cruise control, highlighting the odd sentence and gliding through paragraphs we have worked hard to simplify. Active learning needs to be interactive. When the text says 'clearly', ask yourself 'why' is it clear? See if you can construct the diagram before you look at it. As soon as you don't follow something, go back and read it again. Try to think of other examples to which the theory could be applied. The only way to check you really understand things is to try the review questions and see if you got the right answer. The eighth edition has comprehensive answers, which you will find on pages 638–45. You can also explore the on-line resources centre that accompanies this book for extra learning resources, and may also wish to consider using the student workbook that accompanies this text.

To assist you in working through this text, we have developed a number of distinctive study and design features. To familiarize yourself with these features, please turn to the Guided Tour on pages xxiv–xxv, overleaf.

Changes to the eighth edition

The eighth edition has been thoroughly revised, even though we have kept to the familiar and proven structure, to ensure that it keeps up with the latest thinking about our evolving world and the way in which economics can make sense of it.

Specific changes to the new edition include:

- A complete revision of the discussion of UK competition policy, reflecting changes in legislation and regulatory practice, themselves a response to evolving market conditions that we explain.
- A realistic discussion of modern monetary policy using inflation targeting. Traditional analyses that rely on IS/LM with fixed money supply are more obsolete than ever, and the core of Part 4 integrates the new monetary policy into traditional discussions of aggregate supply and the Phillips curve.
- The eighth edition streamlines the pioneering discussion of the new monetary policy, first introduced in the seventh edition, stripping it down to its bare essentials to make it fully accessible to students learning economics for the first time.
- Fully updated throughout to include 2003/2004 data in graphs and tables, and many new contemporary boxes to illustrate key ideas with relevance to students.
- Revised design that places key terms in the margin for easy reference, and that aims to make the text easier to navigate and use.
- More resources provided for lecturers.

Supplementary resources

Economics eighth edition offers a comprehensive package of resources for the teaching and learning of economics. The resources offered with the new edition have been developed in response to feedback from current users in order to provide lecturers with a variety of teaching resources for class teaching, lectures and assessment. Students are also offered a range of extra materials to assist them in learning, revising and applying the principles of economics.

Acknowledgements for the eighth edition

We thank the team at McGraw-Hill for their support, advice and enthusiasm, and the many readers of previous editions who took the trouble to write with suggestions for improvements and ideas for the new edition.

We would like to thank the following reviewers who provided helpful suggestions and comments on the book as it progressed through its revisions:

Steve Cook, University of Swansea
Tom Craven, University of Ulster at Jordanstown
Richard Godfrey, University of Wales Institute, Cardiff
David Gray, University of Lincoln
Anthony Heyes, Royal Holloway, University of London
Pietie Horn, University of Stellenbosch, South Africa
Geoffrey Killick, University of Westminster
Jan Peter Madsen, Copenhagen Business School, Denmark
Mahmood Messkoub, University of Leeds
Liezl Nieuwoudt, University of Stellenbosch, South Africa
Nicholas Perdikis, University of Wales Aberystwyth
Robert Simmons, University of Lancaster
Thea Sinclair, University of Nottingham
Gerard Turley, National University of Ireland, Galway
Nalini Vittal, Royal Holloway, University of London

Michael Wood, London South Bank University

Guided tour



Part openings

There are five Part Openers, which introduce the topics and themes covered throughout the five parts of the text.

Important key concepts

These are highlighted throughout each chapter and provide key points for ease of reference. A glossary at the end of the book compiles the key terms for handy reference.

Learning outcomes

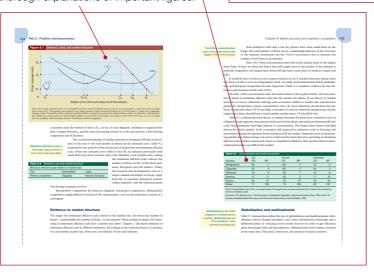
Each chapter opens with a set of learning outcomes that introduce the issues that will be addressed in the chapter and offer a guide to the students for their revision and learning.





Figures and tables

Each chapter provides a number of figures and tables to help you to visualize the various economic models, and to illustrate and summarize important concepts. Captions offer thorough explanations of important figures.





Boxes

Examples throughout the chapters bring economics to life and demonstrate the application of theories and concepts to contemporary issues.

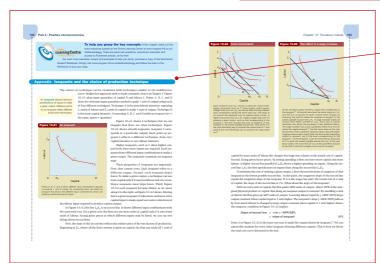
Review questions

These questions encourage you to review and apply the knowledge you have acquired from each chapter and can be undertaken to test your understanding or as a focus for discussion in class. Students can check progress by reviewing the answers at the back of the book.

End of chapter summary

This briefly reviews and reinforces the main topics covered in each chapter, offering a useful revision too and a means of testing that a solid understanding of the key topics has developed.





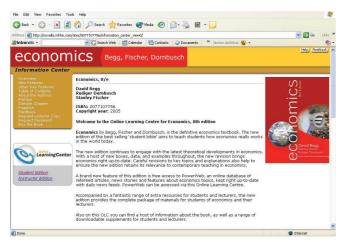
Chapter appendices

These sections at the end of the chapters provide further explanations of economic models for those who wish to use them. They are not necessary to understand the economics of the text but rather for those who are interested in expanding their knowledge further.

Technology to enhance learning and teaching

Visit www.mcgraw-hill.co.uk/textbooks/begg today

Resources for Students



Online Learning Centre (OLC)

After completing each chapter, log on to the supporting Online Learning Centre website. Take advantage of the study tools offered to reinforce the material you have read in the text and to develop your knowledge of economics in a fun and effective way. A range of resources are offered providing revision tools and exam practice.

The new edition provides the complete package of materials for students of economics:

- Additional case studies with exercises new cases in economics with questions enable students to apply and anlayse concepts from the book.
- Chapter-by-chapter student test questions to check understanding of key topics and ideas with progress tests online.
- Interactive exercises including animated graphs to demonstrate how economic models work in practice.
- Crossword quizzes to test knowledge of key terms in economics with interactive puzzles.



- Web links to a wealth of economics sources available online.
- Learning objectives to check that comprehension of the concepts explained in each chapter.
- Glossary of technical terms and more learning tools, all available with the book.

Visit the OLC at www.mcgraw-hill.co.uk/ textbooks/begg for access to all these materials free with every student purchase of the textbook.

PowerWeb

Free with this book you will receive a pass card that contains a password for PowerWeb. By entering the password into the Online Learning Centre, you will be able to access a subject-

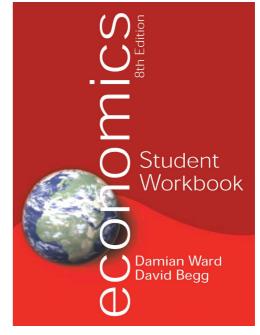


specific online database containing carefully refered articles and daily news feeds about economics topics.

PowerWeb is perfect for researching essays and assignments, keeping in touch with current affairs and seeing how the topics you have learnt apply to economics in the real world. Ideal for expanding your knowledge of up-to-the-minute economics stories and issues - free of charge.

Workbook to accompany Begg Economics Eighth Edition ISBN 0077107802

Would you like access to a range of extra questions, exercises and examples to help you get to grips with economics? The workbook accompanying this book provides a range of extra assessments and questions that can help you to practise your skills in economics and prepare for the exam. Tailored to the book, it is a comprehensive and invaluable tool to help you pass your economics module. Visit www.mcgraw-hill.co.uk for more information and to purchase a copy.

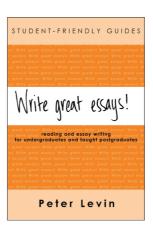


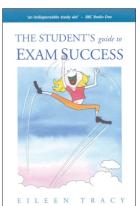
Technology to enhance learning and teaching

Study skills

Need help with exams, essays, assignments or research projects? Open University Press publishes guides to study, research and exam skills, to help undergraduate and postgraduate students through their university studies.

Visit www.openup.co.uk/ss/ to see the full selection.





Computing skills

If you would like to brush up on your computing skills, we have a range of titles covering MS Office applications such as Word, Excel, PowerPoint, Access and more.

Get a £2 discount off these titles by entering the promotional code app when ordering online at www.mcgraw-hill.co.uk/app

Resources for Lecturers

Online Learning Centre: Lecturer Area

Lecturers can find a range of resources and tools to support their teaching at the Online Learning Centre Website. a test bank of questions is also available on CD-ROM.

- Access to PowerWeb, a topic-by-topic database of economics articles and news stories for access to regularly updated material for teaching and for students' independent research.
- Lecturer Manual of teaching tips for delivering a principles of economics module.
- Lecture presentations in PowerPoint for use in lectures, seminar or handouts, including all of the graphs and diagrams from the textbook.
- A variety of extra exercises, case materials and ideas for teaching principles of economics.

A CD-ROM test bank of questions is also available for use in generating multiple choice quizzes for progress tests and for creating more formal assessments.

To access all of the Online Learning Centre student resources, and to contact your McGraw-Hill representative, simply visit the website at **www.mcgraw-hill.co.uk/textbooks/begg** and follow the instructions to register for a password.

XXXX.

Primis content centre

Can't find the perfect book for your course? If you need to supplement your course with additional cases or content, create a personalized e-Book for your students. Visit www.primiscontentcenter.com or e-mail primis_euro@mcgraw-hill.com for more information.

